

II. CLAIM AMENDMENTS

1. (Currently Amended) A method comprising:

transmitting information between applications executed in a first and a second data transmission device in a data transmission system;

using a data transmission protocol in the information transmission;

using an application layer of a protocol stack of the first data transmission device to entirely form messages from the information to be transmitted without using information from other layers, said entirely formed messages being different from said information to be transmitted and each including a header comprising a part common to all of the entirely formed messages and a part specifying a message type;

inserting said entirely formed messages into data fields of frames of a lower layer of said protocol stack without affecting message transmission;

transferring the frames to a physical layer of said protocol stack for transmission; and

transmitting the frames from the first data transmission device to the second data transmission device using a bearer specified by the second data transmission device.

2. (Previously Presented) The method according to claim 1, comprising transmitting at least two types of components in the messages, wherein the messages contain information on the type of the component transmitted in the message.

3.-4. (Cancelled)

5. (Currently Amended) The method according to claim 1, comprising providing the messages also with a data field to transmit information produced in the application.

6. (Previously Presented) The method according to claim 1, comprising:

using in the protocol stack at least a session layer between the application layer and the physical layer, and

transferring the entirely formed messages produced in the application layer to data fields of frames of the session layer.

7. (Previously Presented) The method according to claim 1, comprising using the WAP system at least partly as the data transmission system.

8. (Previously Presented) The method according to claim 1, comprising using the Internet data transmission network at least partly as the data transmission system.

9. (Currently Amended) An apparatus comprising:

a communication network for transmitting information using a data transmission protocol between applications executed in a first and second data transmission device,

a protocol stack in said first and second data transmission device, the protocol stack comprising at least an application layer and a physical layer, wherein said application layer is configured for entirely forming messages from the information to be transmitted without using information from other layers, said entirely formed messages being different from said information being transmitted, and each entirely formed message including a header comprising a part common to all of the entirely formed messages and a part specifying a message type, wherein said protocol stack is configured for performing one or more protocol conversions for said entirely formed messages to insert said entirely formed messages into data fields of frames of a lower layer of said protocol stack without affecting message transmission and for transferring the frames to a physical layer of said protocol stack for transmission, and

a transmitter for transmitting the frames from the first data transmission device to the second data transmission device using a bearer specified by the second data transmission device.

10. (Previously Presented) The apparatus according to claim 9, wherein at least two types of components are arranged to be transmitted in the messages, and wherein the components are supplemented with information on the type of the message transmitted in the message.

11.-12. (Cancelled)

13. (Currently Amended) The apparatus according to claim 9, wherein the messages are also provided with a data field to transmit information produced in the application.

14. (Previously Presented) The apparatus according to claim 9, wherein in the protocol stack at least a session layer is used between the application layer and the physical layer, in which the protocol used therein contains data frames, containing at least a header field and a data field, wherein the entirely formed messages produced in the application layer are arranged to be transferred to the data field of the data frames of the session layer.

15. (Previously Presented) The apparatus according to claim 9, further comprising at least the WAP system.

16. (Previously Presented) The apparatus according to claim 9, further comprising at least the Internet data transmission network.

17. (Currently Amended) A terminal comprising:

a processor for executing applications;

a protocol stack comprising at least an application layer and a physical layer, wherein said application layer is configured for entirely forming messages from the information to be transmitted without using information from other layers, said entirely formed messages being different from said information being transmitted and each including a header comprising a part common to all of the entirely formed messages and a part specifying a message type, wherein said protocol stack is configured for performing one or more protocol conversions for said entirely formed messages to insert said entirely formed messages into data fields of frames of a lower layer of said protocol stack without affecting message transmission and for transferring the frames to a physical layer of said protocol stack for transmission, and

a transmitter for transmitting information produced in the application to a data transmission system for transmission of the information by means of a data transmission protocol to an application executed in a second data transmission device, wherein the second data transmission device specifies a bearer for transmitting the information.